Operating instructions PHILIPS VR850/07

UK

Congratulations ! You now have one of the most sophisticated and easy-to-use video recorders (VCR) on the market. With this VCR you can record and play standard VHS cassettes.

VHS

Please take the time to read this manual before you use your video recorder.

Safety instructions and other notes

Danger: High voltage!
Do not remove the top cover on the machine. You may get an electric shock!

You will not be able to repair any of the parts in this video recorder yourself. When the machine is plugged in, some of the parts will be working all the time. To switch off the video recorder completely, you must unplug it.

This video recorder is designed for a power supply of 220-240V/50Hz.

Make sure that air can flow freely through the ventilation slots on the video recorder.

Do not allow any objects or liquids to get into the video recorder. If you spill anything on it, unplug it immediately and call our After-Sales Service for advice.

Do not use your video recorder immediately after moving it from a cold area to a hot area or if the room is very humid.
Once you have unpacked the video recorder, leave it to stand for at least three hours before you install it. This gives the machine chance to get used to the room temperature.

We have printed these instructions on environment-friendly paper.

Please take your old batteries to proper battery collection points.

Please dispose of the packaging from this video recorder in a way that will not harm the environment.

This video recorder contains many materials that can be recycled. Please ask about recycling your old machine.

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VIDEO Plus+

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1. Installing your video recorder

Important for the United Kingdom

This machine is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug, please follow these instructions.

1. Take off the fuse cover and take out the fuse.
2. Put in a new fuse which should be a BS1362 3A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the plug fitted is not suitable for your socket, cut it off and fit another type.
If the plug you fit contains a fuse, it should be a 3Amp fuse. If you fit a plug which does not need a fuse, make sure the fuse on your fuse box is not greater than 5 Amps.

Note: Please destroy the plug you have cut off so that it cannot be used in a 13 Amp socket somewhere else.

How to connect a plug
The wires in the lead from the video recorder are coloured as follows.
* Blue - 'neutral' ('N').
* Brown - 'live' ('L').

1. Connect the blue wire to the terminal in the plug which is marked with the letter 'N' or coloured black.
2. Connect the brown wire to the terminal in the plug which is marked with the letter 'L' or coloured red.
3. Do not connect either of the wires to the terminal in the plug which is marked with the letter 'E', the symbol ⏚ or coloured green or green and yellow.

Before you refit the plug cover, make sure that the grip at the bottom of the plug is clamped over the plastic cover of the lead, not just over the two wires.

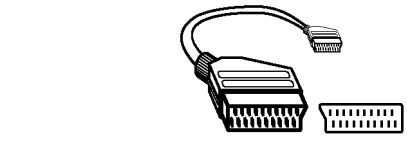
Connecting your video recorder to the TV set

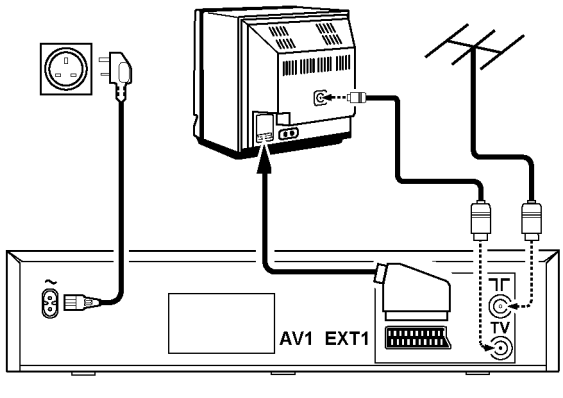
To install your video recorder, you will need to read one of the following.

- ☐ If your TV set has 'Easy Link' or 'NexTView' - the paragraph 'Connecting with a scart cable and Easy Link or NexTView'.
- ☐ If your TV set does not have 'Easy Link' or 'NexTView' - the paragraph 'Connecting with a scart cable without Easy Link or NexTView'.
- ☐ If you do not use a scart cable - the paragraph 'Connecting without a scart cable'.

Connecting with a scart cable and Easy link or NexTView

Easy Link and NexTView allow your video recorder to exchange information with the television. Please follow the operating instructions you received with your television.





1. Take the aerial cable plug out of your TV set and put it into the TV socket on the back of the video recorder.
2. Plug one end of the aerial cable provided into the TV socket on the video recorder. Then plug the other end into the aerial input socket on your TV set.
3. Plug one end of the scart cable provided into the AV1 EXT1 scart socket on the back of the video recorder. Then plug the other end into the scart socket on your TV set.

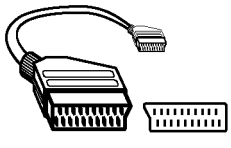
3 Switch on the TV set.

3 Plug one end of the mains cable into the mains socket ~ on the back of the video recorder. Then plug the other end into the wall socket.

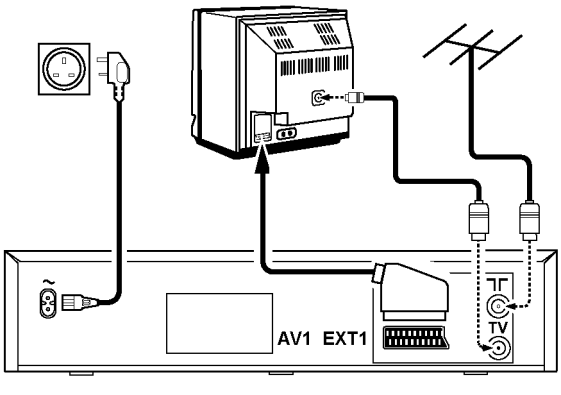
4 Your video recorder will automatically store all the TV channels on your TV, in the same order.
This may take several minutes.
When your video recorder has stored all the information it needs from your TV (TV channels, language, country), the following text will appear on your TV screen:
'EASY LINK LOADING COMPLETE'.

5 Check that the time and date on the video recorder display are correct. If they are not, please read the paragraph 'Setting the time and date' in this chapter.

Connecting with a scart cable without Easy Link or NexTView



If your television does not have a scart (EURO-AV) socket, please see the next paragraph 'Connecting without a scart cable'.



1 Take the aerial cable plug out of your TV set and put it into the ⊓⊓ socket on the back of the video recorder.

5 Plug one end of the aerial cable provided into the TV socket on the video recorder. Then plug the other end into the aerial input socket on your TV set.

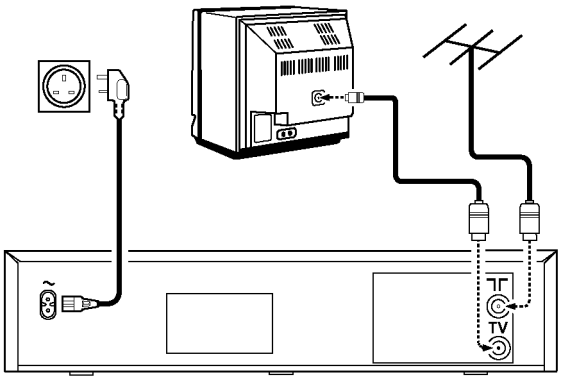
3 Plug one end of the scart cable into the AV1 EXT1 scart socket on the back of the video recorder. Then plug the other end into the scart socket on your TV set.

3 Switch on the TV set.

3 Plug one end of the mains cable into the mains socket ~ on the back of the video recorder. Then plug the other end into the wall socket.

4 If your TV set automatically switches to a programme number, a text will appear on your TV screen.
If not, select your programme as shown in the instruction manual for your TV set.

Connecting without a scart cable



1 Take the aerial cable plug out of your TV set and put it into the ⊓⊓ socket on the back of the video recorder.

5 Plug one end of the aerial cable provided into the TV socket on the video recorder. Then plug the other end into the aerial input socket on your TV set.

3 Plug one end of the mains cable into the mains socket ~ on the back of the video recorder. Then plug the other end into the wall socket.

3 Switch on your TV set and select the channel number you have chosen for playing videos.

3 You will then see some text on your TV screen.

4 Tune in the TV set on the UHF wave band until this picture appears.
Read the instructions in the manual for your TV set.

5 Then follow the instructions shown under 'Tuning in your video recorder for the first time'.

Automatic tuning (autoinstall)

Your video recorder will search for all TV channels. It stores the TV channels it finds in the following order: BBC 1, BBC 2, ITV, Channel 4, Channel 5, Sky, others.

Tuning in your video recorder for the first time

1 If you have plugged the aerial into the video recorder, press the OK button on the remote control. Then follow the instructions below from step 3 .

Tuning in your video recorder at other times

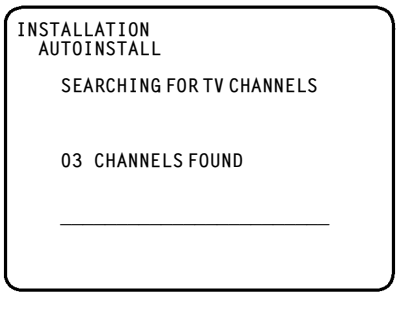
1 Switch on the TV set and select the programme number for the video recorder.

5 Press the MENU button. The main menu will appear.

3 Select the line 'INSTALLATION' with the menu buttons P➔ or P➔ and confirm with the → button.

3 Select the line 'AUTOINSTALL' with the menu buttons P➔ or P➔ and confirm with the → button.

3 Automatic tuning will start. This can take several minutes.



4 When automatic tuning is complete, 'AUTOINSTALL COMPLETE' will appear on the TV screen.

5 To end, press the MENU button.

Automatic TV channel store (FOLLOW TV)

With this function, the video recorder stores the channels in the same order as on the TV set. It only works if the video recorder (socket AV1 EXT1) and the TV set are connected with a scart cable. You must switch off any equipment connected to socket AV2 EXT2 .

i If you are following the instructions on page 2 under 'Connecting with a scart cable and Easy Link or NexTView', this function will start the transfer of information between the TV and the video recorder.

1 Switch on the TV set and select the programme number for the video recorder.

5 Press the MENU button. The main menu will appear.

3 Select the line 'INSTALLATION' with the menu buttons P➔ or P➔ and confirm with the → button.

3 Select the line 'FOLLOW TV' with the menu buttons P➔ or P➔ and confirm with the → button.
Check the message on the TV screen.

3 Press the OK button.

☐ If the video recorder recognises that the TV set has been connected with a scart cable, 'TV 01' will appear on the video recorder display.

☐ If 'NOTV' (no signal from the TV set) appears on the video recorder display, this means that the TV channels cannot be tuned in automatically. In this case, please see 'Sorting and clearing TV channels manually'.

4 Select channel '1' on the TV set.

5 Confirm with the OK button on the video recorder remote control. The video recorder will compare the channel on the TV set and the video recorder.
If the video recorder has found the same channel as the TV set, it will store it as 'P01'.

6 Wait until, for example, 'TV 02' appears.

8 Select the next programme number on the TV set.

7 Confirm with the OK button on the video recorder remote control.

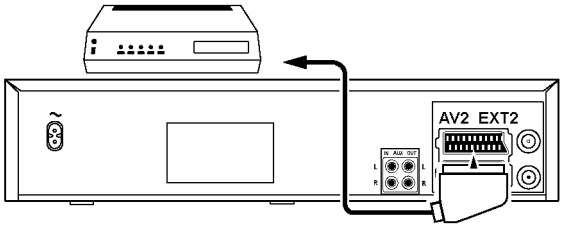
If you have selected the wrong TV channel, you can go back a step with the menu button ←.

8 Repeat steps 6 to 7 until all TV channels have been stored on the video recorder.

9 To end, press the MENU button.

Connecting a decoder or other equipment

You can also connect other equipment to the AV2 EXT2 socket, for example a decoder, satellite receiver or camera recorder. And you can connect a hifi set to the sockets AUX OUT L R and AUX IN L R.



Tuning in a decoder

With this function, your decoder will automatically tune in to the TV programme you want.

If you are following the instructions on page 2 under 'Connecting with a scart cable and Easy Link or NexTView', the decoder must be tuned in to the TV set.

1 Switch on the TV set and select the programme number for the video recorder.

5 On the video recorder, select the TV channel you want to tune in to the decoder, using the P← or P→ button or the buttons 0-9.

3 Press the MENU button. The main menu will appear.

3 Select the line 'INSTALLATION' with the menu buttons P→ or P← and confirm with the → button.

3 Select the line 'MANUAL SEARCH' with the menu buttons P→ or P← and confirm with the → button.

4 Select the line 'DECODER' with the menu buttons P→ or P←.

5 Select 'ON' with the menu buttons ← or →.
When you select 'OFF', the function will be switched off.

6 Confirm with the OK button.

When the function is switched on, 'DEC' will appear in the video recorder display.

8 To end, press the MENU button.

Manual TV channel search

In some cases 'Automatic tuning' may not be able to find all of the TV channels (for example, coded TV channels). If this happens, you can use this manual method to tune in the rest of the channels.

If you are following the instructions on page 2 under 'Connecting with a scart cable and Easy Link or NexTView', your video recorder will automatically load the TV channels from the TV set. So this information may not be relevant.

1 Switch on the TV set and select the programme number for the video recorder.

5 Press the MENU button. The main menu will appear.

3 Select the line 'INSTALLATION' with the menu buttons P→ or P← and confirm with the → button.

3 Select the line 'MANUAL SEARCH' with the menu buttons P→ or P← and confirm with the → button.

```
INSTALLATION
 MANUAL SEARCH

   CHANNEL/FREQ.       CH
   ENTRY/SEARCH        34
   PROGRAMME NUMBER  - 02
   TV CHANNEL NAME     MTV
   DECODER             OFF
   TV SYSTEM           PAL
   NICAM               ON
   FINE TUNING         +1

                 TO EXIT
                 PRESS    MENU
```

3 In the line 'CHANNEL/FREQ.', select the display for:
* **'FREQ.'**: frequency;
* **'CH'**: channel; or
* **'S-CH'**: special channel.

4 If you know the frequency or number of the TV channel you want to tune in, you can enter this information in line 'ENTRY/SEARCH' with the digit buttons [0-9].

☐ If you don't know the frequency or number, press the [→] button to start the channel search.

5 In the line 'PROGRAMME NUMBER' select the programme number you want to store it under, using the menu buttons [←] or [→].

6 If you want to change the TV channel name, press the [→] button in line 'TV CHANNEL NAME'.

☐ Select the letter or number you want to change with the [←] or [→] button. Change it with the [P→] or [P←] button. Change the next letter or number in the same way.

☐ Keep pressing the menu button [→] until the cursor disappears.

8 In the line 'NICAM', select function 'ON' or 'OFF' with the [→] or [←] button.

7 If you want to change an automatic TV channel setting, select the line 'FINE TUNING' and use the [←] or [→] button. **Important:** Fine tuning is only necessary in special cases, for example when there are stripes on the picture with cable TV systems.

8 Press the [OK] button to store the TV channel.

i If you want to search for other TV channels, start again from step 4.

9 To end, press the [MENU] button.

Monitor function

You can switch backwards and forwards between your TV picture and video recorder picture with the [MONITOR] button. But this only works when you use a scart cable to connect the video recorder to your TV set and your TV set responds to this switchover.

Sorting and clearing TV channels manually

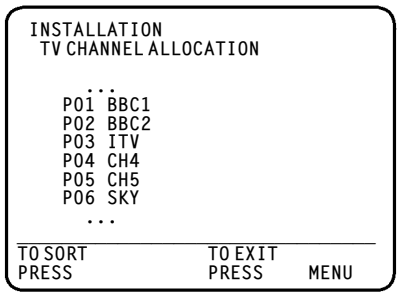
i If you are following the instructions on page 2 under 'Connecting with a scart cable and Easy Link or NexTView' your video recorder will automatically load the TV channels from the TV set. So you cannot select this function.

1 Switch on the TV set and select the programme number for the video recorder.

5 Press the [MENU] button. The main menu will appear.

3 Select the line 'INSTALLATION' with the menu buttons [P→] or [P←] and confirm with the [→] button.

3 Select the line 'TV CHANNEL ALLOCATION' with the menu buttons [P→] or [P←] and confirm with the [→] button.



3 With the menu buttons [P→] or [P←], select the TV channel you want to give a programme number to, (starting with 'P01') and press the [→] button.

i If you want to delete a TV channel, press the [CLEAR (CL)] button when the cursor is next to that programme number.

4 With the menu buttons [P→] or [P←], shift the TV channel to the number you want to give to that channel and press the [←] button. The TV channel will be added to the list.

5 Repeat steps 3 and 4 until you have given a number to all TV channels.

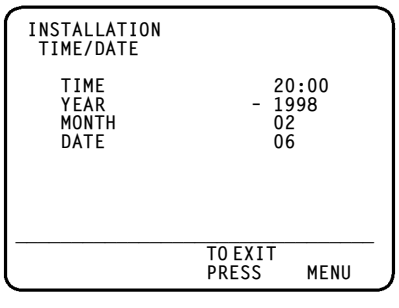
6 To store, press the [OK] button.

8 To end, press the [MENU] button.

Setting the time and date

If the time shown on the video recorder display is not correct or '--:--' appears on the display, please follow these instructions.

1. Switch on the TV set and select the programme number for the video recorder.
2. Press the [MENU] button. The main menu will appear.
3. Select the line 'INSTALLATION' with the menu buttons [P→] or [P←] and confirm with the [→] button.
4. Select the line 'TIME/DATE' with the menu buttons [P→] or [P←] and confirm with the [→] button.



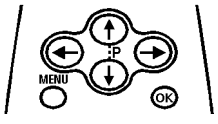
3. Adjust 'TIME', 'YEAR', 'MONTH' and 'DATE' using the buttons [0-9]. Switch between each one with the menu buttons [P→] or [P←].
4. Confirm each entry with the [OK] button.
5. To end, press the [MENU] button.

i If a TV channel which transmits TXT/PDC is stored under programme number 'P01', the time and date will automatically be taken from the TXT/PDC information.

On-screen display (OSD)

With on-screen display the functions appear on the TV screen as a menu. The most important buttons are shown at the bottom of the screen.

- **Call up the menu:** with the [MENU] button.
- **Select a line:** with the [P→] or [P←] button.
- **Select within a line**: with the menu buttons [←] or [→].
- **Enter or change:** with the [←] or [→] or with the [0-9] buttons.
- **Store:** with the [OK] button.
- **Confirm:** with the [→] button.
- **Exit menu:** with the [MENU] button.
  For more details of OSD, please see 'On-screen display' in chapter 5.



Emergency interrupt

You can use the [⏻STANDBY] button on the video recorder or remote control to interrupt any function.
So if you are having operating problems, you can just interrupt the function and start again. And you can practise operating your video recorder without any worries. No matter which buttons you press, you cannot damage it.

Important notes

- You can switch on with the [STOP■] button, the [0-9] buttons or by putting in a cassette.
- Keep your video recorder connected to the mains at all times so that it can make programmed recordings and the television works normally. Your video recorder uses less than 4 Watts in energy-saving mode.
- When the video recorder is not plugged into the mains, it will usually store TV channels for a year, and date and timer information for seven hours.

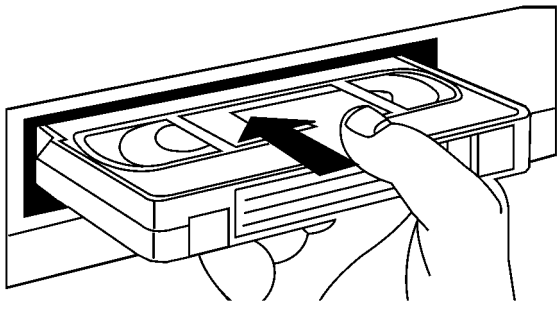
Saving energy

There are two ways to switch to standby.
Normal method : Switch to standby using the [⏻STANDBY] button. The clock time will still be displayed.
If you have not set the clock, '--:--' will appear.
To save energy : Press the [⏻STANDBY] button twice. The clock time will disappear from the display.

2. Playback functions

Playing a cassette

1 Put a cassette in the cassette slot.



5 Press the PLAY► button.

3 To stop, press the STOP■ button.

3 To eject the cassette, press the STOP/EJECT■/▲ button on the machine.

i Some hired cassettes may have a poor picture or poor sound quality. This is not a fault in your machine. Please read the section 'Selecting the picture setting (SMART PICTURE)', or 'Picture interference' in this chapter.

i Some functions switch off automatically after a while (for example, pause, still picture, picture search). This helps to protect the cassette and avoids wasting power.

Playing NTSC casettes

With this machine you can play cassettes that have been recorded on another video recorder in the NTSC standard. NTSC is the TV system used in, for example, America and Japan. PAL is the TV system used in, for example, Europe. But this only works for PAL-television sets which are suitable for a picture frequency of 60 Hz.
When you play an NTSC cassette, '60HZ' will appear on the video recorder display.

i Some special features (for example, still picture) are not possible while you are playing an NTSC cassette.

Tape position indicator

1 Press the COUNTER button while the cassette is playing.

5 Select one of the following options.
'TIME USED' to show the time used on the tape.
'TIME LEFT' to show the time left on the tape.
'COUNTER' to show the present position on the tape.

i By pressing the OK button, you can show the present tape position on the TV screen.

Searching for a tape position with the picture (picture search)

1 While a cassette is playing, press the ◁◀ (rewind) or ▶▷ (wind) button.

5 To stop at a certain picture, press the PLAY► button.

i During picture search, the picture quality may not be so good and there will be no sound.

JOG and SHUTTLE

You will find a large knob -⊙+ on the video recorder and the remote control.

1 Switch the function on by pressing the STILL▶◀ button. You will see a still picture.

5 Use the inner JOG disc on the remote control to select the next or previous still picture.

3 By turning the inner disc continuously to the right or to the left you can switch to slow motion, forwards or backwards.

3 The outer SHUTTLE ring of the knob allows you to select different tape speeds for the forward and reverse picture search.

Searching for a tape position without the picture (wind and rewind)

1 Stop the tape with the STOP■ button.

5 Press the ◁◀ (rewind) or ▶▷ (wind) button or, on the video recorder, turn the outer ring of the knob -⊙+ to the left or to the right.

3 To stop at a certain position, press the STOP■ button.

Instant view

With this function you can switch to picture search during wind or rewind.

1. If you hold the ◁◀ (rewind) or ▶▷ (wind) button during wind or rewind, you will switch to picture search.
2. If you release the button, the video recorder will automatically switch back to rewind or wind.

Automatic search for a tape position (index search)

At the start of each recording, the video recorder will mark the tape with an index code mark.

1. Press the INDEX▶I button. Then press the ▶▷ button to select the next code mark or the ◁◀ button for the previous code mark.
2. When the video recorder finds the code mark or a blank space it will automatically switch to play.

i You can only search for a blank space with recordings made on a video recorder that does not have this index code mark function.

Selecting the picture setting (SMART PICTURE)

You can change the colour, contrast and sharpness of the picture while a cassette is playing.

1. Press the SMART button. This will show the current picture setting.
2. Press the SMART button again to select the picture setting you want.
3. Confirm the new setting with the OK button.

This picture setting will not change until you eject the cassette.

Picture interference

If the picture quality is poor when you play a cassette, please follow these instructions.

Tracking while a cassette is playing

1. Press the MENU button.
2. Select the line 'PLAY FUNCTIONS' with the menu buttons P→ or P← and confirm with the → button.
3. Select the line 'MANUAL TRACKING' with the menu buttons P→ or P←.
4. Hold the menu buttons ← or → until the picture quality is at its best.
3. Confirm with the OK button.
4. To end, press the MENU button. This setting will not change until you eject the cassette.

Tracking with a still picture

If the still picture vibrates vertically, you can improve it as follows.

1. Press the MENU button.
2. Select the line 'PLAY FUNCTIONS' with the menu buttons P→ or P← and confirm with the → button.
3. Select the line 'VERTICAL STABILITY' with the menu buttons P→ or P←.
4. Hold the menu buttons ← or → until the picture quality is at its best.
3. Confirm with the OK button.
4. To end, press the MENU button.

Cleaning the video heads

1. While a cassette is playing, press the MENU button.
2. Select the line 'PLAY FUNCTIONS' with the menu buttons P→ or P← and confirm with the → button.
3. Select the line 'HEAD CLEANING' with the menu buttons P→ or P←.
4. Press the OK button. 'HEAD CLEANING IN PROGRESS' will appear on the screen.
3. Wait a few seconds until the message disappears. Then press the MENU button to end.

3. Manual recording

Recording without automatic switch-off

1. Put a cassette into the machine.
2. Use the [P←] or [P→] button to select the programme number you want to record from.

i If you are using 'Direct record', select the programme number on the TV set. Then, with the video recorder switched on, press the [●RECORD/OTR] button.

i If a TV channel transmits a channel name, it will show on the video recorder display.

i Programme numbers 'E1' and 'E2' are for recording from other sources (through scart sockets [AV1 EXT1] and [AV2 EXT2]). Programme number 'E3' is for recording from the front sockets [VIDEO] and [L-AUDIO-R].

i Programme numbers 'AUX' and 'MIC' are for audio recordings (through sockets [AUX IN L R]) and the microphone socket '[MIC.]'.

3. Press the [●RECORD/OTR] button.
4. Stop recording with the [STOP■] button.

Recording with automatic switch-off (OTR one-touch recording)

1. Put a cassette into the machine.
2. Use the [P←] or [P→] button to select the programme number you want to record.
3. Press the [●RECORD/OTR] button.
4. Press the [●RECORD/OTR] button again and again until the display on the video recorder shows the end time or length of the recording you want.

i To cancel this programme, press the [CLEAR (CL)] button.

Protecting your recordings

So that you don't accidentally delete an important recording, remove the special tab on the narrow side of the cassette with a screwdriver or slide the special tab to the left. Later, if you no longer want to protect the recording, you can seal the gap again with sticky tape or slide the special tab to the right.

Auto-assembling

You can use this function to join individual recordings without any major picture disturbance between them.

1. While the cassette is playing, search for the correct position on the tape.
2. Stop the cassette by pressing the [STOP■] button. 'PAUSE' will appear on the TV screen.
3. Now start recording as usual by pressing the [●RECORD/OTR] button.

Choosing the recording speed (SP or LP)

You can reduce the recording speed by half. This makes it possible to record, for example, eight-hours instead of four-hours on an 'E240' (four-hour) cassette.

1. Switch on the TV set and select the programme number for the video recorder.
2. Press the [MENU] button. The main menu will appear.
3. Select the line 'RECORD FUNCTIONS' with the menu buttons [P→] or [P←], and confirm with the [→] button.
4. Select the line 'RECORD SETTINGS' with the menu buttons [P→] or [P←], and confirm with the [→] button.
5. Select the line 'RECORD SPEED' with the menu buttons [P→] or [P←].
6. Select the recording speed you want with the menu buttons [←] or [→].

i **'LP'**(long play) gives half the normal recording speed (double the recording time).
'SP'(standard play) gives the normal recording speed.

i The picture quality may suffer when you record at half speed (LP).

i When you play back your recording, the machine will automatically select the correct speed.

7. Confirm with the [OK] button.

6 To end, press the MENU button.

Automatic recording from a satellite receiver (SAT RECORDING)

You can only use this function when you have a satellite receiver which can control other equipment by a 'programming' function.

1 Switch on the TV set and select the programme number for the video recorder.

5 Press the MENU button. The main menu will appear.

3 Select the line 'RECORD FUNCTIONS' with the menu buttons P→ or P← , and confirm with the → button.

3 Select the line 'RECORD SETTINGS' with the menu buttons P→ or P← , and confirm with the → button.

3 Select the line 'SAT RECORD' with the menu buttons P→ or P← .

4 Select the scart socket you want to use with the menu buttons ← or → .
If you want to switch off the function, select 'OFF' with the menu buttons → or ← .

5 Confirm with the OK button.

6 Use a scart cable to connect the scart socket you have selected on the video recorder to the scart socket on the satellite receiver.

8 Put a cassette into the machine.

7 To end, press the ⏻STANDBY button. The video recorder is now ready to record.

i When this function is switched on, '🔕' appears on the video recorder display.

Direct record

When this function is switched on and the video recorder is switched to standby, the video recorder will automatically record the programme number selected on the television.

i If you are following the instructions on page 2 under 'Connecting with a scart cable and Easy Link or NexTView', the video recorder will also take the programme number from the TV set automatically when the video recorder is switched on.

1 Switch on the TV set and select the programme number for the video recorder.

5 Press the MENU button. The main menu will appear.

3 Select the line 'RECORD FUNCTIONS' with the menu buttons P→ or P← , and confirm with the → button.

3 Select the line 'RECORD SETTINGS' with the menu buttons P→ or P← , and confirm with the → button.

3 Select the line 'DIRECT RECORD' with the menu buttons P→ or P← .

4 Select the function 'ON' with the menu buttons ← or → .

5 Confirm with the OK button.

6 To end, press the MENU button.

8 Switch off the video recorder with the ⏻STANDBY button.

7 On the TV set, select the programme number you want to record from.

8 Press the ●RECORD/OTR button with the video recorder switched off.

i Don't select another programme number on your TV set until the 'search symbol' on your video recorder display disappears. This can take up to one minute.

i If 'NOTV' appears on the video recorder display, this means the video recorder cannot find that channel. The video recorder will then switch off automatically.

4. Programmed recording

To make a programmed recording, your video recorder needs to know:

- the date you want to make the recording;
- the programme number of the TV channel you want to record;
- the start and stop time of the recording;
- whether you want to use VPS or PDC (see below); and
- the recording speed (SP or LP).

The video recorder stores all this information in a TIMER block. You can programme up to six TIMER blocks a month in advance.

VPS (video programming system) and PDC (programme delivery control)

With VPS and PDC, the TV station controls the start time and length of the recording. This means that the video recorder switches itself on and off at the right time, even if a TV programme you want to record begins earlier or finishes later than expected.
Usually the start time is the same as the VPS/PDC time. But if your TV guide gives a VPS or PDC time which is different to the programme's start time (for example, 20.15 and VPS 20.14), you must enter '20.14' as the start time.
If you want to programme a time that is different from the VPS and PDC time, you must switch off VPS and PDC.

i With most TV stations the VPS and PDC time are always the same as the start time.

Programming with VIDEO Plus+

All the information your video recorder needs is contained in the PlusCode programming number.

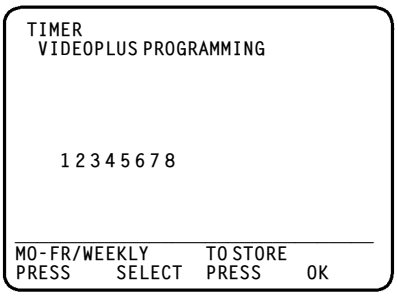
VIDEO Plus+

1 Switch on the TV set and select the programme number for the video recorder.

5 Press the TIMER button on the remote control.

3 Select the line 'VIDEOPLUS PROGRAMMING' with the menu buttons P→ or P← and confirm with the OK button.

3 Use the number buttons on the remote control to enter the PlusCode number printed in your TV guide.
If you make a mistake, you can clear your instructions with the CLEAR (CL) button.



3 Use the SELECT button to select daily or weekly programming.
'MO-FR' record every day from Monday to Friday.
'WEEKLY' record every week on the same day of the week.

4 Confirm with the OK button. Your programming details will then appear on the TV screen.

i If VIDEO Plus+ does not recognize the TV channel, 'PLEASE ENTER PROGRAMME NUMBER' will appear on the TV screen. You can select the programme number with the P← or P→ button.
Then confirm with the OK button.

i If 'PLUSCODE NUMBER WRONG' appears on the TV screen, this means you have entered an incorrect PlusCode number or the incorrect date. Correct your instructions or end with the TIMER button.

i If 'WEEKEND PROGRAMMING - NOT POSSIBLE' appears on the TV screen, this means you have entered an incorrect date. You can only use daily programming for recordings from Monday to Friday.

i Under 'START', use the SELECT button to switch VPS and PDC on or off.

i Under 'END', use the SELECT button to select the recording speed SP or LP.

5 Confirm with the OK button.

i The programming information has been stored in a TIMER block.

6 To end, press the TIMER button.

8 Make sure that the cassette you have put in can be recorded on.

7 Switch off the video recorder with the ⏻STANDBY button.

If any of the TIMER blocks are in use, '⏻' will light up on the video recorder display.

If you reach the end of the cassette during a recording, the video recorder will automatically eject the cassette.

If you forget to load a cassette, 'NO CASSETTE' will appear on the TV screen and '⏻' will flash on the video recorder display.

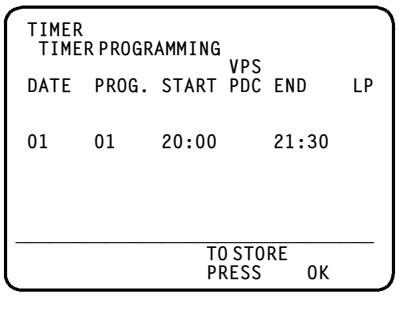
If you have put in a cassette which cannot be used for recording, the video recorder will eject it.

Programme numbers 'E1' and 'E2' are not for recordings from your TV.

Programme numbers 'AUX' and 'MIC' are for audio recordings, not recordings from your TV.

Manual programming without VIDEO Plus+

1. Switch on the TV set and select the programme number for the video recorder.
2. Press the [TIMER] button on the remote control.
3. Select the line 'TIMER PROGRAMMING' with the menu buttons [P→] or [P←] and confirm with the [→] button.



4. Select the type of information you want to programme with the menu buttons [←] or [→].
3. Enter your information with the menu buttons [P→] or [P←] or with buttons [0-9].

Under 'DATE', use the [SELECT] button to select daily or weekly programming.
'MO-FR' record from Monday to Friday.
'MO' record every week on the same day.

Under 'START', use the [SELECT] button to switch VPS and PDC on or off.

Under 'END', use the [SELECT] button to select the recording speed SP or LP.

4. Confirm with the [OK] button.

The programming information has been stored in a TIMER block.

5. To end, press the [TIMER] button.
6. Make sure that the cassette you have put in can be recorded on. Switch off the video recorder with the [⏻STANDBY] button.

If any of the TIMER blocks are in use, '⏻' will light up on the video recorder display.

If you reach the end of the cassette during a recording, the video recorder will automatically eject the cassette. The TV set will then switch off after a few minutes.

If you forget to load a cassette, 'NO CASSETTE' will appear on the TV screen and '⏻' will flash on the video recorder display.

If you have put in a cassette which cannot be used for recording, the video recorder will eject it.

Programme numbers 'E1' and 'E2' are not for recordings from your TV.

Programme numbers 'AUX' and 'MIC' are for audio recordings, not recordings from your TV.

How to check or change a TIMER

1. Switch on the TV set and select the programme number for the video recorder.
2. Press the [TIMER] button on the remote control.
3. Select the line 'TIMER LIST' with the menu buttons [P→] or [P←] and confirm with the [→] button.
4. Select the TIMER you want to check or change with the menu buttons [P→] or [P←].
3. Press the menu button [→].
4. Select what you want to check or change with the menu buttons [←] or [→].
5. Change any information with the menu buttons [P→] or [P←] or with the buttons [0-9].
6. Confirm with the [OK] button.
8. To end, press the [TIMER] button.
7. Make sure that the cassette you have put in can be recorded on. Switch off the video recorder with the [⏻STANDBY] button.

How to clear a TIMER

1. Switch on the TV set and select the programme number for the video recorder.
2. Press the [TIMER] button on the remote control.
3. Select the line 'TIMER LIST' with the menu buttons [P→] or [P←] and confirm with the [→] button.
4. Select the TIMER you want to clear with the menu buttons [P→] or [P←].
5. Press the [CLEAR (CL)] button.
6. Confirm with the [OK] button.
7. Switch off with the [TIMER] button.

NexTView Link

This video recorder has NexTView Link. If your television also has NexTView, you can select programmes on the TV for recording. These programmes will automatically be transmitted to a TIMER block on your video recorder. If you cancel the TV programme you have selected on the TV, the TIMER block on the video recorder will also be cancelled. For more information, please read the instruction manual for your TV set.

5. Other functions

UK

Changing the TV system

If you play recordings made on another video recorder, it may lead to problems with the colour of your picture.

1. Switch on the TV set and select the programme number for the video recorder.
2. Press the [MENU] button. The main menu will appear.
3. Select the line 'SPECIAL SETTINGS' with the menu buttons [P→] or [P←] and confirm with the [→] button.
4. In the line 'TV SYSTEM', select the TV system you want with the menu buttons [←] or [→].
5. Confirm with the [OK] button.
6. To end, press the [MENU] button.

i If you still have problems with the colour of the picture, you can switch to B/W (black and white) on the 'TV SYSTEM' line.

Child lock

1. Switch on the TV set and select the programme number for the video recorder.
2. Press the [MENU] button. The main menu will appear.
3. Select the line 'SPECIAL SETTINGS' with the menu buttons [P→] or [P←] and confirm with the [→] button.
4. In the line 'CHILD LOCK', select 'ON' with the menu buttons [←] or [→].
5. Confirm with the [OK] button.
6. To end, press the [MENU] button.
   'ᓂ' will appear in the video recorder display.
   Keep the remote control in a safe place.
7. If you want to switch off the child lock, select 'OFF' in the line 'CHILD LOCK'. 'ᓂ' will disappear from the video recorder display.

i If you press a button when the child lock is on, 'ᓂ' will flash on the video recorder display for a few seconds.

i You can make programmed recordings while the child lock is on.

You can also switch on the child lock with the remote control. Press the [⏻STANDBY] button on the remote control for a few seconds until 'ᓂ' appears on the video recorder display. Switch the child lock off in the same way.

Setting the on-screen display (OSD)

1. Switch on the TV set and select the programme number for the video recorder.
2. Press the [MENU] button. The main menu will appear.
3. Select the line 'SPECIAL SETTINGS' with the menu buttons [P→] or [P←] and confirm with the [→] button.

```
MAIN MENU
 SPECIAL SETTINGS

   TV SYSTEM          - PAL
   CHILD LOCK           OFF
   OSD MODE             AUTO.
   16:9 WIDE SCREEN     OFF
   VCR 1 OR 2           VCR 1
   REPEAT PLAY          OFF
   AUTO STANDBY         ON
   DEMO                 OFF

                TO EXIT
                PRESS    MENU
```

3. Select the line 'OSD MODE' with the menu buttons [P→] or [P←].
4. Select one of the options shown with the menu buttons [→] or [←].
   'AUTO.' Shows the OSD for a few seconds only.
   'OFF' Switches off the OSD.
   'ON' Switches on the OSD.
5. Confirm with the [OK] button.
6. To end, press the [MENU] button.

i You can use the [OK] button to show the current operating mode on your TV screen.

Switching to 16:9 wide screen picture

When you play a cassette that has been recorded in 16:9 wide screen format, you can switch this function 'ON'. The TV set will now automatically switch to wide screen. This only works if you have connected the TV set and the video recorder with a scart cable and if your TV set is suitable for wide screen.

1. Switch on the TV set and select the programme number for the video recorder.
2. Press the MENU button. The main menu will appear.
3. Select the line 'SPECIAL SETTINGS' with the menu buttons P→ or P← and confirm with the → button.
4. If you have a wide-screen TV set, select 'ON' in line '16:9 WIDE SCREEN'. If not, select 'OFF' with the menu buttons → or ←.
3. Confirm with the OK button.
4. To end, press the MENU button.

Switching the remote control command

If you have two video recorders with the same remote control, you can change the commands of the remote control for one of the video recorders to avoid sending the message to the wrong recorder.

1. Switch on the TV set and select the programme number for the video recorder.
2. Press the MENU button. The main menu will appear.
3. Select the line 'SPECIAL SETTINGS' with the menu buttons P→ or P← and confirm with the → button.
4. Select the line 'VCR 1 OR 2' with the menu buttons P→ or P←.
3. Select 'VCR 1' or 'VCR 2' with the menu buttons ← or →.
4. Confirm with the OK button.
5. On the remote control, press the SELECT button and button 2 at the same time to switch the remote control to 'VCR 2'.

i If you want to switch back to 'VCR 1', press the SELECT button and button 1 at the same time.

6. Confirm with the OK button.

i If the menu does not disappear, this means the video recorder didn't recognize the remote control command. Repeat step 5.

i If you change the batteries in the remote control, it will switch back to 'VCR 1'.

i If you have entered the wrong remote control command and you press a button for a few seconds, a message will appear on the TV screen or 'VCR 1' will appear on the video recorder display.

Continuous play

1. Switch on the TV set and select the programme number for the video recorder.
2. Press the MENU button. The main menu will appear.
3. Select the line 'SPECIAL SETTINGS' with the menu buttons P→ or P←. Confirm with the → button.
4. Select the line 'REPEAT PLAY' with the menu buttons P→ or P←.
3. Select 'ON' with the menu buttons ← or →.
4. Confirm with the OK button.
5. Press the MENU button.
6. Put in a cassette and press PLAY►.
When the video recorder reaches the end of the tape or the end of the recording, it will rewind and start again.

Automatic switch-off

If you do not use the video recorder for a few minutes it will switch to standby automatically. You can cancel this function to use the video recorder as a television receiver.

1. Switch on the TV set and select the programme number for the video recorder.
2. Press the MENU button. The main menu will appear.
3. Select the line 'SPECIAL SETTINGS' with the menu buttons P→ or P← and confirm with the → button.
4. Select the line 'AUTO STANDBY' with the menu buttons P→ or P←.
5. Select 'OFF' with the menu buttons ← or →.
6. Confirm with the OK button.
7. To end, press the MENU button.

i A TIMER recording will only function when the video recorder is switched to standby.

The 'DEMO' function

When the DEMO function is switched on and the video recorder is switched to standby, several menus will be shown on the TV screen. This does not prevent you from operating the video recorder as usual.

1. Switch on the TV set and select the programme number for the video recorder.
2. Press the MENU button. The main menu will appear.
3. Select the line 'SPECIAL SETTINGS' with the menu buttons P→ or P← and confirm with the → button.
4. In the line 'DEMO', select 'ON' with the menu buttons → or ←.
5. Confirm with the OK button.
6. To end, press the MENU button.

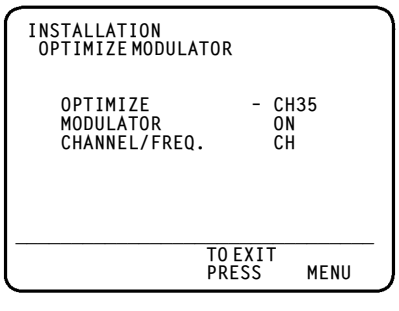
i The DEMO function is not possible during a TIMER recording and during an automatic recording from a satellite receiver.

Reducing picture disturbance ('optimizing the modulator')

You may experience picture disturbance if you have not used a scart cable to connect your video recorder and TV. This is because another TV station in your reception area may already be using UHF-channel CH35 or 583MHz.

1 Switch on the TV set and select the programme number for the video recorder.

5 Make sure that there is no cassette in the video recorder. On the video recorder, press the [STOP/EJECT ■/▲] and the [PLAY ►] buttons at the same time for a few seconds until a channel frequency appears on the display. The video recorder will then transmit a test picture on this channel.



3 In the line 'CHANNEL/FREQ.', select 'CH' or 'FREQ.' using the menu buttons [→] or [←].

3 Select the line 'OPTIMIZE' with the menu buttons [P←] or [P→]. Press the menu button [→].

3 When the video recorder finds a 'free' TV channel, it will show the channel or frequency on the small video recorder display.

i You can also enter the channel or frequency using buttons [0-9].

4 Tune in the TV set to this channel or frequency.

5 Confirm the channel or frequency with the [OK] button.

6 To end, press the [MENU] button.

Switching off the modulator

If you cannot clear picture or sound interference, you can switch off the built-in modulator. You should only do this if you have connected the video recorder to the TV set with a scart cable.

i If you have Easy Link or NexTView, the modulator will be switched off automatically.

1 Switch on the TV set and select the programme number for the video recorder.

5 Make sure that there is no cassette in the video recorder. Press the [STOP/EJECT ■/▲] and the [PLAY ►] buttons at the same time for a few seconds until a channel frequency appears on the video recorder display.

3 Select the line 'MODULATOR' on the TV screen or 'M ON' on the video recorder display with the menu buttons [P←] or [P→].

3 With the menu buttons [←] or [→], select 'OFF' on the TV screen or 'MOFF' (modulator off) on the display.

3 Confirm with the [OK] button.

4 To end, press the [MENU] button.

Using your video recorder remote control with your TV set

Your video recorder remote control can transmit several commands to TV sets of different makes.
By using the TV buttons on the panel in the middle of the control, you can:

[◿ +/–] increase or reduce the TV volume;
[TV 🔇] switch off the sound;
[TV ⏻] switch off the TV set; and
[P +/–] change the channel

1 Point the remote control at the TV set.

5 Press the [TV ⏻] button and the relevant number button at the same time.

Number button	TV make
0	Philips, Radiola (F), Schneider (F)
1	Grundig
2	Panasonic
3	Panasonic
4	Sony

i If the number shown above does not work with your TV set, or if the make of your TV is not in the list, you can try out the numbers one after the other.

Audio record only

You can use your video recorder as an audio tape recorder. You can record the sound from a hifi unit or a second video recorder.

1 Use an audio cable to connect your hifi to the [AUX IN L R] socket at the back of the video recorder.

5 Select the programme number from which you want to make the 'audio only' recording, using the [P ←] or [P →] button (for example, 'AUX' for the [AUX IN L R] socket).

3 Press the [MENU] button. The main menu will appear.

3 Select the line 'RECORD FUNCTIONS' with the menu buttons [P →] or [P ←] and confirm with the [→] button.

3 Select the line 'AUDIO ONLY' with the menu buttons [P →] or [P ←] and confirm with the [→] button.

4 To start sound recording, press the [●RECORD/OTR] button.

5 To stop recording, press the [STOP ■] button.

6 To end, press the [MENU] button.

Manual audio control

With the [MANUAL] button you can switch to manual audio control.

1 Press the [MANUAL] button on the video recorder. The current selection will appear in the video recorder display.

5 Keep pressing the [MANUAL] button until 'MAN' (manual audio control) appears on the display.

3 With the [PROGRAMME ←] and [PROGRAMME →] buttons on the video recorder, adjust the recording level so that the '0 dB' mark lights up during the loudest parts of the recording.

i At step 5 you can switch back to 'AUTO.' (automatic audio control) with the [→] button.

Audio dubbing

This function allows you to replace (dub) the soundtrack of an existing recording with another soundtrack. To do this, connect your audio equipment (for examle, a CD player) to the [L-AUDIO-R] socket. You can also connect a microphone to the socket [MIC.].

1 Switch on the TV set and select the programme number for the video recorder.

5 Press the [MENU] button. The main menu will appear.

3 Select the line 'RECORD FUNCTIONS' with the menu buttons [P →] or [P ←] and confirm with the [→] button.

3 Select the line 'AUDIO DUBBING' with the menu buttons [P →] or [P ←] and confirm with the [→] button.

3 Select the programme number for the audio equipment (for example, 'E3'). Then switch on the audio equipment.

4 Find the position on the tape where you want the audio dubbing to end.

5 Press the [STILL/JOG ON ▶◀] button. 'STILL' will appear on the TV screen.

6 Press the [CLEAR (CL)] button. '0:00:00' will appear on the TV screen.

8 Find the position on the tape where you want the audio dubbing to start.

7 Press the [STILL/JOG ON ▶◀] button. 'STILL' will appear on the TV screen.

8 Press the STOP ■ button.

9 Press the ●RECORD/OTR button. The video recorder will start to record the sound from the audio equipment. The normal soundtrack will be re-recorded, but the stereo sound will remain.
The audio recording will stop automatically when the counter reaches '0:00:00'.

7 To end audio dubbing,press the MENU button.

i To play back the audio dubbing, read 'Selecting the soundtrack' in this chapter.

Headphone volume

1 Press PLAY ►, then press the MENU button. The main menu will appear.

5 Select the line 'PLAY FUNCTIONS' with the menu buttons P→ or P← and confirm with the → button.

3 Select the line 'HEADPHONE VOLUME' with the menu buttons P→ or P← and confirm with the → button.

3 Adjust the volume with the menu buttons ← or →.

3 Confirm with the OK buton.

4 To end, press the MENU button.

Selecting the soundtrack

You can select the soundtrack you want to record. This is especially useful if the programme is multilingual.

1 Press the SELECT button. The current setting will appear on the TV screen.

5 By pressing the SELECT button several times you can select from the four possibilities displayed ('STEREO', 'RIGHT', 'LEFT', 'MONO').

i While a tape is playing, you can select a fifth possibility: the 'MIXED' mode. In this mode you can play the mono sound of the normal audio track together with the sound of the stereo audio track.

i If there is no stereo sound recorded on the cassette, the video recorder automatically switches to mono sound.

'Synchro edit'

You can copy between this video recorder and a suitable camera recorder. Start both machines at the same time and use the adjustable start delay (preroll time).

Adjusting the video recorder to the camera recorder.

1 Connect the two machines with a synchro-edit cable (socket SYNCHRO EDIT on the front left of the video recorder).
Connect the video or audio source to the input sockets L-AUDIO-R and VIDEO of the video recorder.

i Please also read the instruction manual for the camera recorder.

5 Switch on the TV set and select the programme number for the video recorder.

3 Press the MENU button. The main menu will appear.

3 Select the line 'RECORD FUNCTIONS' with the menu buttons P→ or P← and confirm with the → button.

3 Select the line 'CAMERA LINK' with the menu buttons P→ or P←.

4 Switch the camera recorder to 'still picture'.

5 Confirm with the → button. The video recorder now checks the camera recorder type.

6 When the check is complete, one of the following messages will appear on the TV screen:
'VCR CONTROL DETECTED' if the video recorder controls the camera recorder; or 'CAMERA CONTROL DETECTED' if the camera recorder controls the video recorder.

Starting synchro-edit

1. Switch on the TV set and select the programme number for the video recorder.
2. Press the MENU button. The main menu will appear.
3. Select the line 'RECORD FUNCTIONS' with the menu buttons P→ or P← and confirm with the → button.
4. Select the line 'SYNCHRO EDIT' with the menu buttons P→ or P← and confirm with the → button.
3. The on-screen display for the connected camera recorder will appear on the TV screen.
4. Search the beginning of the recording on the video recorder.
5. Press the STILL/JOG ON ▶I◀ button. 'STILL' will appear on the TV screen.
6. Use the SELECT button to switch to the picture of the camera recorder.
8. Search the beginning of the recording on the camera recorder. Then, switch the camera recorder to 'still picture'.

The way you start copying will depend on the type of camera recorder you are using.
*Method 1 applies if the video recorder is to control the camera recorder.
*Method 2 applies if the camera recorder is to control the video recorder.

Method 1 - If the video recorder is to control the camera recorder

1. Start copying with the ●RECORD/OTR button on the video recorder. The camera recorder will start to play and the video recorder will start to record.
2. Stop copying with the STOP■ button on the video recorder.
3. End copying with the MENU button.

Method 2 - If the camera recorder is to control the video recorder

1. Start copying with the relevant button on the camera recorder.
   The camera recorder will start to play and the video recorder will start to record.
2. Stop copying with the PAUSE or STILL button on the camera recorder.
3. End copying with the MENU button.

Setting the 'preroll time'

This is the time that the tape moves before the recording starts. If the beginning of the recording is missing, this means the preroll time was too long. Select a shorter 'preroll time'. If the recording has started too early, this means the preroll time was too short. Select a longer preroll time. You can select a preroll time of between 1 and 5 seconds.

1. Press the MENU button.
2. Select the line 'RECORD FUNCTIONS' with the menu buttons P→ or P← and confirm with the → button.
3. Select the line 'RECORD SETTINGS' with the menu buttons P→ or P← and confirm with the → button.
4. In the line 'PREROLL TIME', adjust the 'preroll time' with the menu buttons → or ←.

i You can also enter the preroll time with buttons 0-9.

i By using the CLEAR (CL) button, you can reset the preroll time to suit your camera recorder type.

3. Confirm with the OK buton.
4. To end, press the MENU button.

UK

Before you call an engineer

If you have any problems using this video recorder, you may find the information below helpful. Or you can call the customer service centre in your country. You will find the phone number in the enclosed guarantee leaflet.

If your video recorder does not respond to any button being pressed, this may be because:
- there is no power supply;
- a programmed recording is currently being made;
- the child lock is switched on; or
- there is a technical problem. In this case, switch off the mains power supply for 30 seconds, then switch it on again. If this does not have any effect, you can:
  Switch off the power supply again. Then switch it on whilst holding down the STANDBY ⏻ button on the video recorder until the message disappears from the display. All the information stored will be cleared.

If the cassette is jammed in the video recorder:
- don't use force but pull out the mains plug for a moment.

If the remote control does not work, this may be because:
- it is not pointed toward the video recorder;
- the batteries have run out; or
- you have given the wrong remote control command. In this case, read the paragraph 'Switching the remote control command' in chapter 5.

If there is no picture when you play a cassette, this may be because:
- there is no recording on the cassette;
- you have chosen the wrong channel on the TV for playing videos; or
- the cable connecting the TV and the video recorder has come loose.

If there is poor picture quality when you play a cassette, this may be because:
- your TV set is not properly adjusted;
- the cassette is badly worn or of poor quality; or
- the tracking is not properly adjusted or the video heads are dirty. In this case, turn to chapter 2 and read 'Selecting the picture setting' or 'Picture interference'.

If your video recorder will not record, this may be because:
- the TV channel you want to record from is not stored;
- you have selected the wrong programme number; or
- you have loaded a cassette which cannot be recorded on.

If your programmed recording does not work, this may be because:
- you have not set the TIMER properly;
- you have programmed the wrong time or date;
- you have loaded a cassette that cannot be recorded on; or
- PDC or VPS is switched on but the PDC or VPS time is wrong.

If there is picture or sound interference on TV reception:
- turn to chapter 5 and read the sections 'Eliminating picture disturbance ('optimizing the modulator')' and 'Switching off the modulator'; and
- have your aerial checked.

Please write the serial number of your video recorder here:

Model-number or type: VR850/07

Serial number: . . . . . .

This product meets the requirements of the Directive 73/23/EEC + 89/336/EEC + 93/68/EEC.

Interference

The Department of Trade and Industry runs a Radio Investigation Service to help TV licence holders improve reception of BBC and ITC programmes which are being spoilt by interference.
If your dealer cannot help, ask at a main post office for the booklet 'How to improve television and radio reception'.

VR850/07

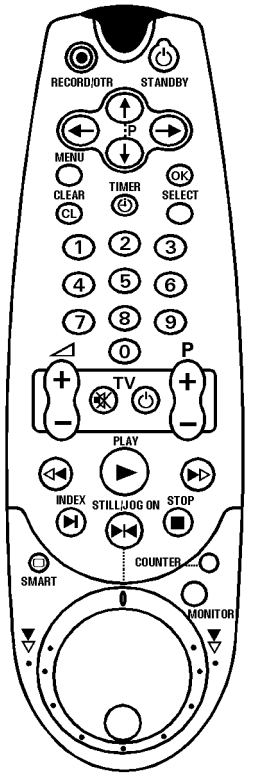
3103 166 21554
9062/012

Remote codes

Acura	02
Adyson	20
Akai	18, 33
Akura	21, 25
Alba	02, 07, 21
Allorgan	28
Amplivision	20
Amstrad	02
Anitech	02
Arcam	19, 20
Asuka	21
Audiosonic	15
BPL	26
BSR	28
BTC	21
Basic Line	02, 21
Baur	03, 33
Beko	35
Binatone	20
Blaupunkt	17
Blue Sky	21
Blue Star	26
Bondstec	23
Boots	20
Brandt	15
Britannia	19
Bush	02, 07, 21, 26, 28, 36, 42
CGE	23
CS Electronics	19
CTC	23
Carrefour	07
Cascade	02
Cimline	02
Clatronic	23, 35
Condor	30, 35
Contec	02, 07, 19
Crown	02, 35, 38
Cybertron	21
Daewoo	02, 36
Dainichi	21
Dayton	02
De Graaf	18
Decca	10
Dixi	02
Dual	42
Dual Tec	20
Elite	21, 30
Elta	02
Emerson	33
Ferguson	15
Fidelity	19, 33
Finlandia	18, 32
Finlux	10, 13, 32
Firstline	02, 19, 20, 23, 28, 31
Fisher	18, 20, 35
Flint	40
Formenti	30
Frontech	23, 25
Fujitsu	10
Funai	25, 28
GEC	10, 20
GPM	21
Geloso	02
Genexxa	21
GoldStar	15, 20, 27
Goodmans	07, 10, 20, 29, 36
Gorenje	35
Graetz	33
Granada	10, 18, 20
Grandin	26
Grundig	17
HCM	02, 26
Hanseatic	30, 33
Hinari	02, 07, 21
Hisawa	26, 40
Hitachi	05, 07, 08, 13, 15, 20, 22
Huanyu	19, 36
Hypson	25, 26
ICE	20, 25
ICeS	21
ITT	33
Imperial	23, 35, 38
Inno Hit	10
Interfunk	23, 33
Intervision	12, 20, 25
Isukai	21
JVC	07, 09
Kaisui	02, 19, 20, 21, 26
Kathrein	01
Kingsley	19
Koyoda	02
Leyco	10, 25, 28
Lloytron	05
Luxor	33
M Electronic	02, 13, 15, 20, 32, 36, 41
Magnadyne	12, 23
Magnafon	12
Manesth	20, 25, 30
Marantz	01
Matsui	02, 04, 06, 07, 10, 18, 20, 28, 39
Memorex	02
Metz	34
Mitsubishi	07, 14, 16
Mivar	19, 27
Multitech	02, 12, 19
Neckermann	01
Nikkai	05, 06, 10, 19, 21, 25
Nobliko	12
Nokia	33, 41
Nordmende	15
Oceanic	33
Orion	28, 30, 31
Osaki	05, 10, 20, 21, 25
Oso	21
Osume	05, 10
Otake	29
Otto Versand	01, 03, 07, 20, 30
Palladium	35, 38
Panama	20, 25
Panasonic	24, 34
Pathe Cinema	19, 30
Pausa	02
Perdio	30
Phase	05
Philco	23
Philips	01, 36
Pioneer	15
Profex	02, 33
Proline	31
Protech	02, 12, 20, 23, 25, 38
Quelle	03, 04, 33
Questa	07
Rank Arena	07
Rediffusion	33
Rex	25
Roadstar	02, 21, 25, 38
SEG	07, 20, 25
SEI	12, 28
Saba	15
Saisho	02, 04, 25
Salora	33
Sambers	12
Samsung	01, 02, 20, 25, 27, 35
Sandra	19
Sanyo	04, 07, 10, 18
Schaub Lorenz	33
Schneider	21, 23, 37
Sei-Sinudyne	03
Sentra	06
Sharp	07, 11
Shorai	28
Siarem	12
Siemens	17
Silver	07
Sinudyne	12, 28
Solavox	05
Sonitron	18
Sonoko	02
Sonolor	18
Sony	03, 04, 07
Soundwave	38
Standard	02, 20, 21
Sunkai	28, 31
Susumu	21
Tandy	10, 20, 21
Tashiko	07, 20
Tatung	10, 20
Tec	20, 23
Technema	30
Technics	24
Telefunken	15
Telemeister	30
Teletech	02
Teleton	20
Tensai	21, 28, 29, 30
Texet	19, 21
Thomson	15
Thorn	06, 10, 33
Tomashi	26
Toshiba	06, 07
Uher	30
Ultravox	12
Universum	13, 25, 32, 35
Videosat	23
Videotechnic	20
Visa	02
Vision	30
Waltham	20
Watson	30
Watt Radio	12
Wega	07
White Westinghouse	19, 30
Yoko	20, 25

A brief guide to using your video recorder

The remote control



●RECORD/OTR **Record and OTR** This records the TV channel that you have selected at that moment.

⏻STANDBY **Switch off** This switches off the machine. If you press ⏻STANDBY it will automatically cancel any menu function you have chosen and will stop a TIMER-recording.

P← **Channel and menu button** This changes to the next numbered TV channel (for example, 2 to 3). It also moves the cursor up if you have the menu on screen.

P→ **Channel and menu button** This changes to the previous numbered TV channel (for example, 3 to 2). It also moves the cursor down if you have the menu on screen.

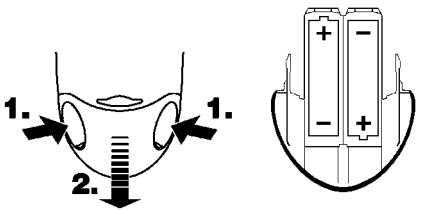
← **Menu button** This moves the cursor left.

→ **Menu button** This moves the cursor right.

MENU **Menu button** This calls up the main menu or cancels the menu.

OK **Store and confirm** This stores or confirms any programme you have entered.

CLEAR (CL) **Delete** This deletes the last programme you have entered or clears the TIMER.



This is how you put the batteries into your remote control.
To open the battery compartment:
1. push the dents and
2. slide down the cover

TIMER ⏲ **TIMER** This sets the TIMER or changes or cancels a programmed TIMER

SELECT **Select** This activates the menu function you have chosen.

0-9 **Digit buttons** These are the buttons you use to select channels and programme the machine.

◁◀ **Rewind** If you have pressed STOP or STANDBY, this rewinds the cassette. If you have pressed PLAY, this scans the picture in reverse.

PLAY ▶ **Playback** This plays a recorded cassette.

▶▷ **Forward wind** If you have pressed STOP or STANDBY, this winds the cassette on. If you have pressed PLAY, this scans the picture forward.

INDEX ▶| **Index search** If you use this button with ◁◀ or ▶▷, it searches for the previous or next recording on the tape.

STILL/JOG ON ▶|◀ **Still picture and JOG on** This stops the tape and shows the picture at that moment as a still picture. It can also switch on the 'JOG' function.

-⊙+ **SHUTTLE** If you are holding the picture on STILL, the outer dial allows you to select the speed at which the picture will move on.

⊙ **JOG** If you are holding the picture on STILL, the inner dial allows you to move the picture on slowly.

STOP ■ **Pause and stop** This stops the tape, except during TIMER recording.

SMART **SMART** This adjusts the picture while you are playing a cassette.

COUNTER **Counter** This shows how much of the tape you have played.

MONITOR **TV monitor** This switches between the picture on TV and on your cassette.

TV controls

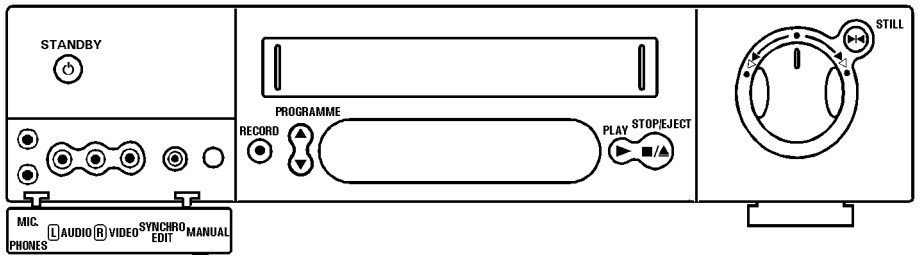
◿ +/− **TV volume** This increases and reduces the volume.

TV ⏻ **Switch off** This switches off the TV.

TV 🔇 **TV sound off** This switches off the sound completely.

P +/− **TV programme** This changes the programme number up and down.

The front of the set



STANDBY ⏻ **Standby** This switches off the set. If you press STANDBY ⏻, it will automatically cancel any menu you have chosen and will stop TIMER recording.

RECORD ● **Record** This records the TV channel you have selected at that moment.

PROGRAMME ← **Programme number plus** This changes to the next numbered programme (for example, 2 to 3).

PROGRAMME → **Programme number minus** This changes to the previous numbered programme (for example, 3 to 2).

PLAY ► **Playback** This plays a recorded cassette.

STOP/EJECT ■/▲ **Pause and stop** This stops the tape, except during TIMER recording. If you press it again, it ejects the tape.

STILL ▶◀ **Still picture** This stops the tape and shows the picture at that moment as a still picture.

-⊙+ **Rotary control** Turn the control left: If you have pressed STOP or STANDBY, this rewinds the cassette. If you have pressed PLAY, this scans the picture in reverse.
Turn the control right: If you have pressed STOP or STANDBY, this winds the cassette on. If you have pressed PLAY, this scans the picture forward.

Behind the flap on the left

MIC. **Microphone input socket** This is to connect a microphone for dubbing.

PHONES **Headphones socket** This is to connect headphones.

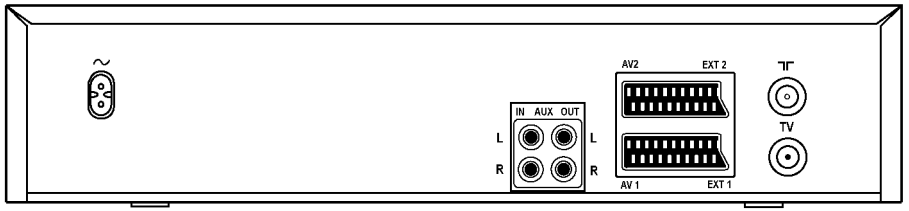
L-AUDIO-R **Audio input socket left/right** This is to connect the audio sockets of a camera recorder or video recorder.

VIDEO **Video input socket** This is to connect the video sockets of a camera recorder or video recorder.

SYNCHRO EDIT **EDIT input socket** This is to connect a suitable camera recorder.

MANUAL **Manual sound control** This is to switch between automatic sound control and manual sound control.

The back of the set



~ **Mains socket** This is to connect the mains cable.

AUX IN L R **Audio input sockets, left and right** This is to connect a hifi set.

AUX OUT L R **Audio output sockets, left and right** This is also to connect a hifi set.

AV1 EXT1 **Scart socket 1** This is to connect the TV set to the video recorder.

AV2 EXT2 **Scart socket 2** This is to connect a satellite receiver, decoder, video recorder and so on.

Aerial input socket This is to connect the aerial cable.

TV **Aerial output socket** This is to connect the aerial cable from the TV set.